

Fig.1A
RING CONNECTION NETWORK

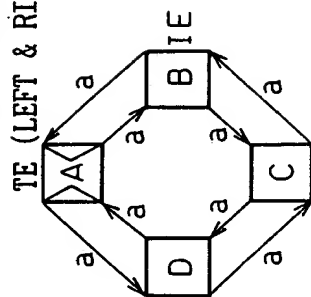


Fig.1B

LINEAR CONNECTION NETWORK

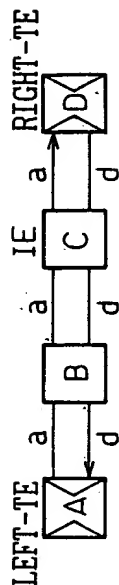


Fig.1C

STRUCTURE OF LOGICAL COMMUNICATION
PATH IN RING CONNECTION NETWORK

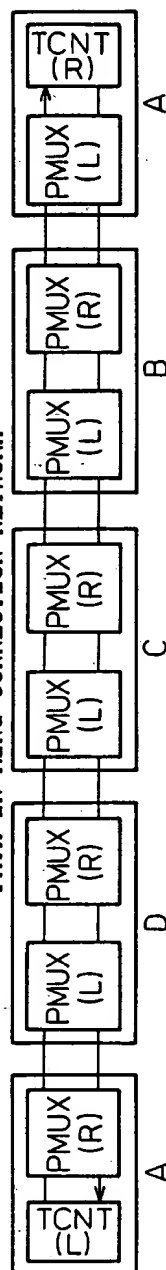


Fig.1D

STRUCTURE OF LOGICAL COMMUNICATION
PATH IN LINEAR CONNECTION NETWORK

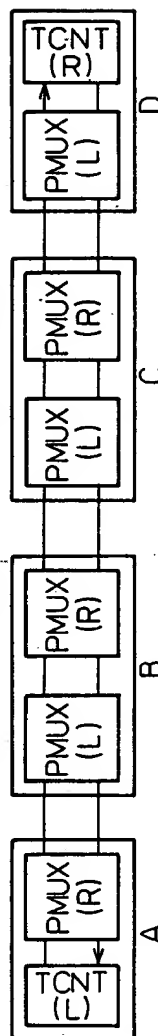


Fig.2A

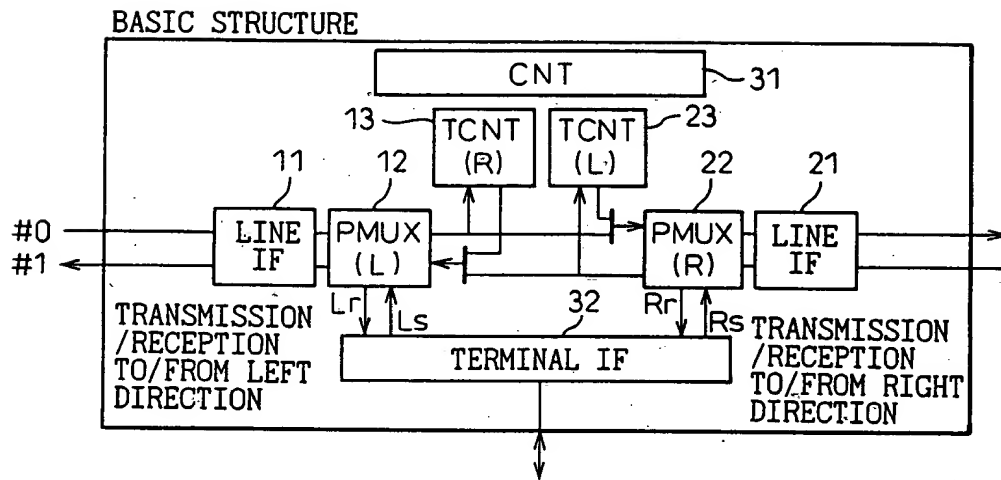


Fig.2B

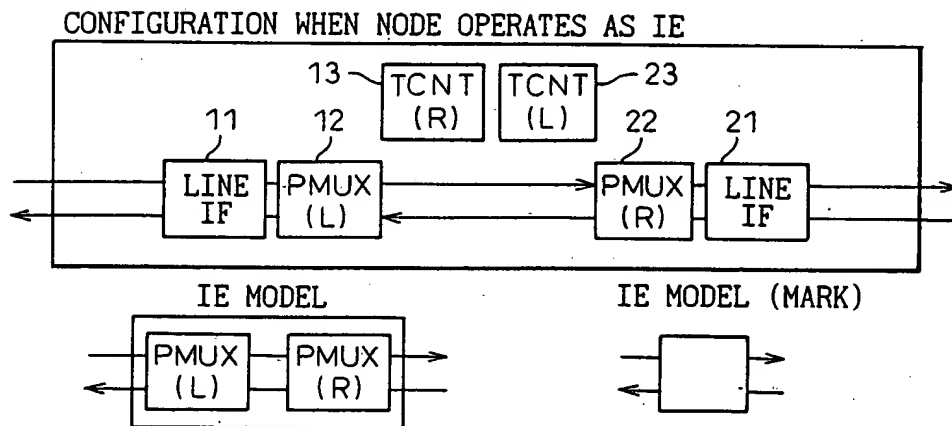


Fig.2C

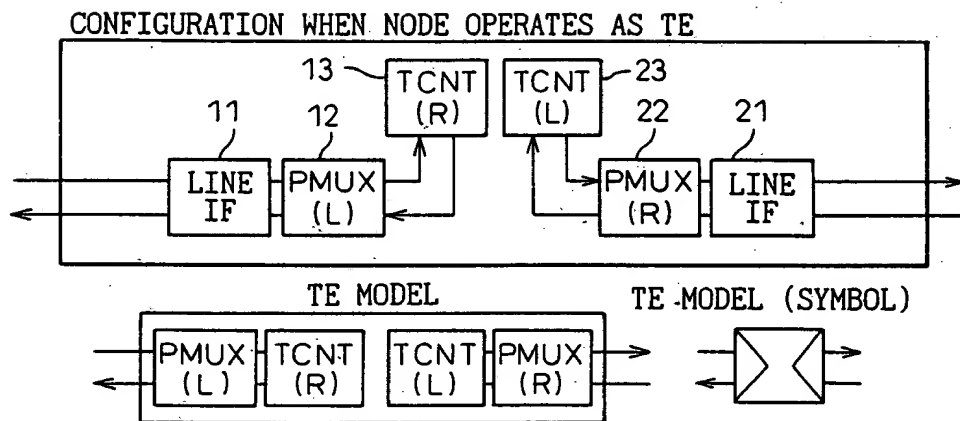


Fig. 3B

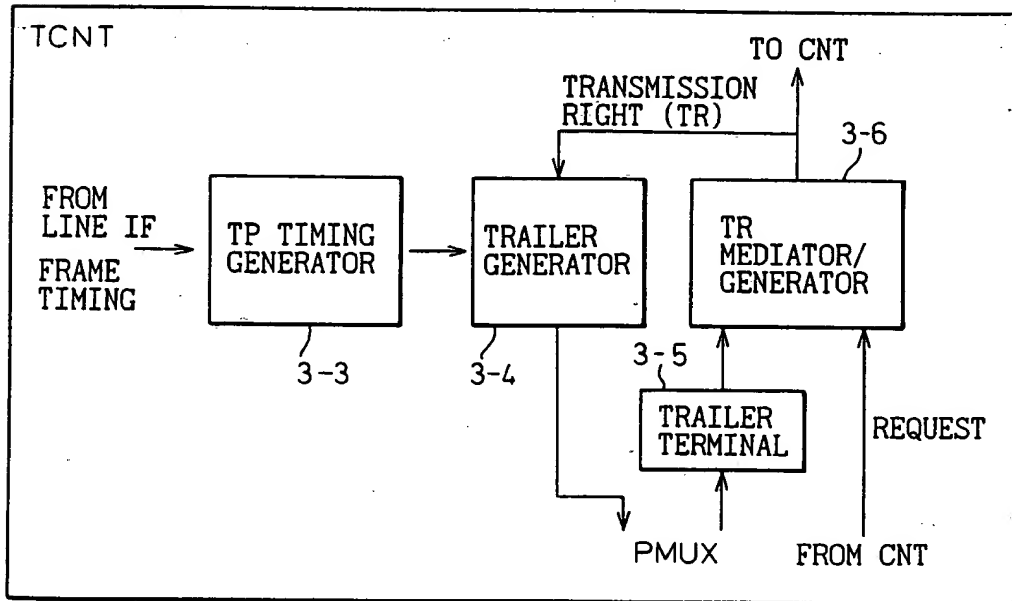


Fig. 4

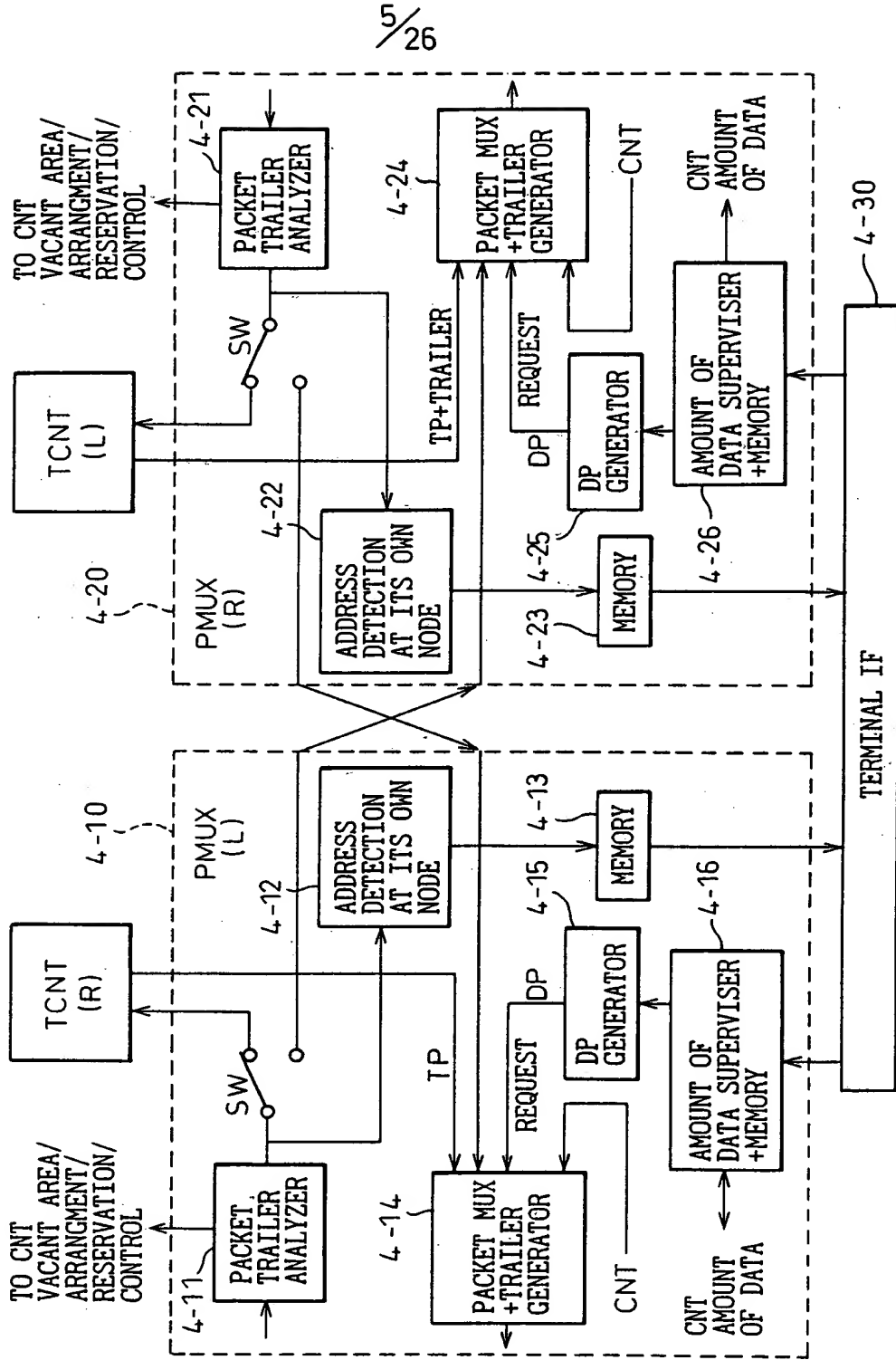


Fig.5

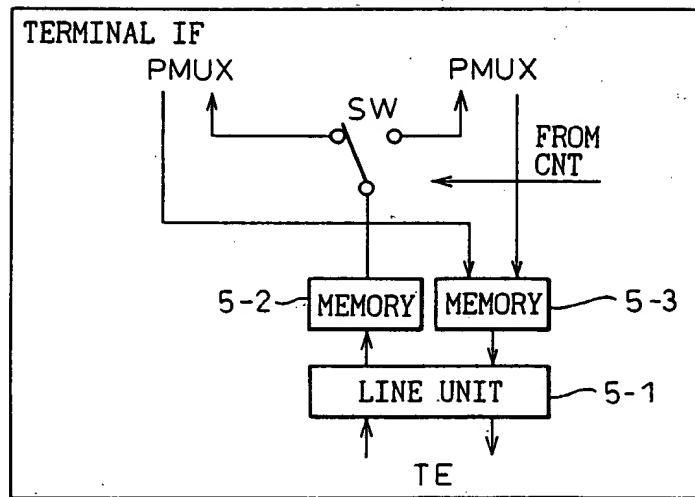


Fig. 6A

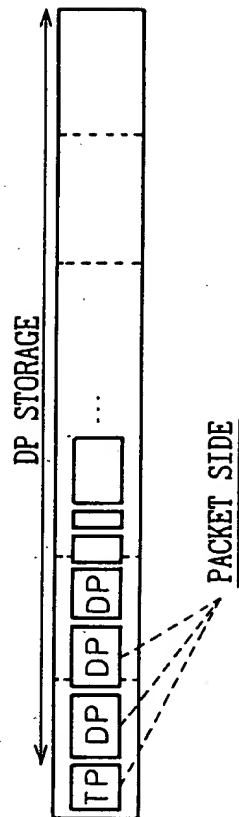


Fig. 6B

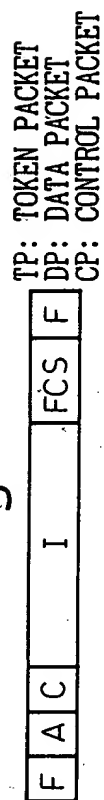


Fig. 6C

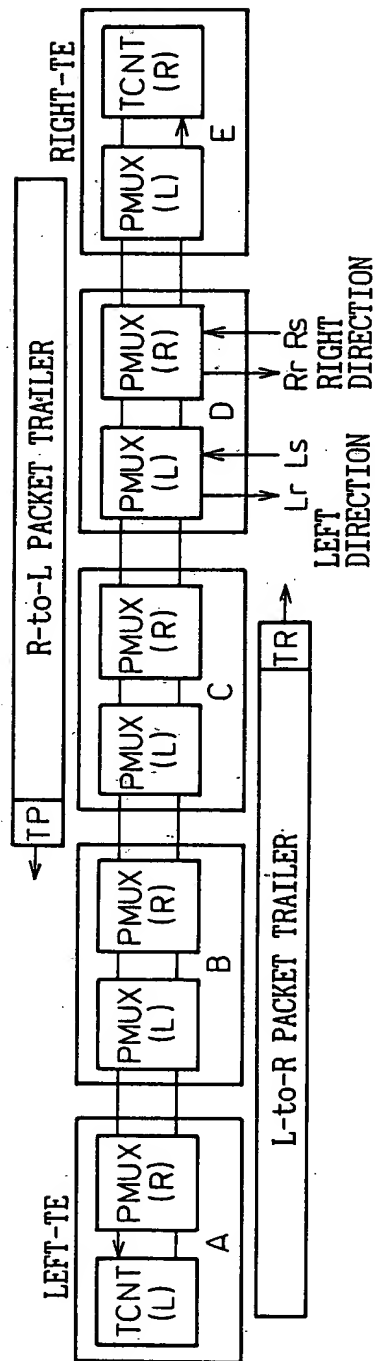
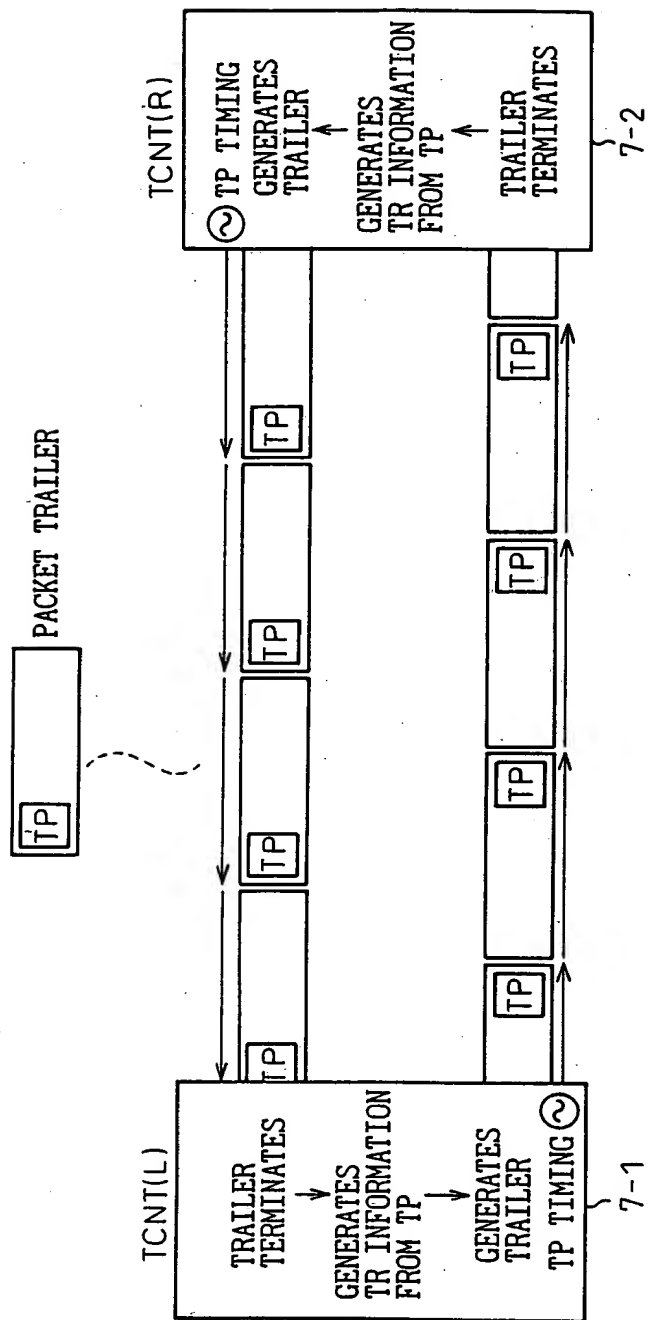


Fig.7



9/26

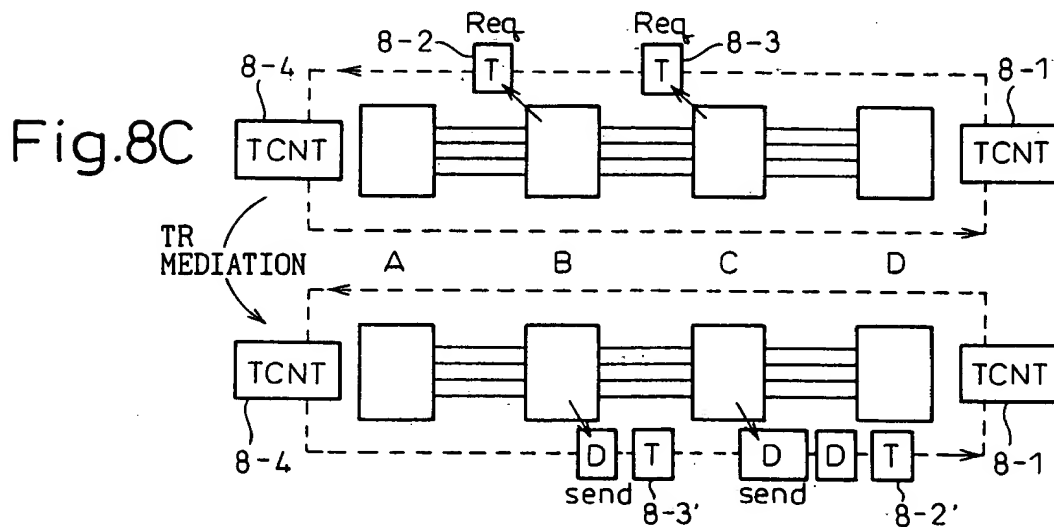
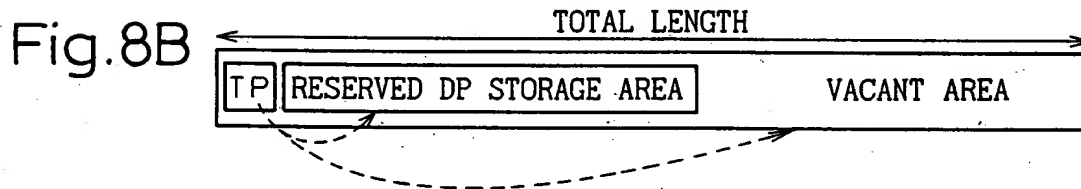
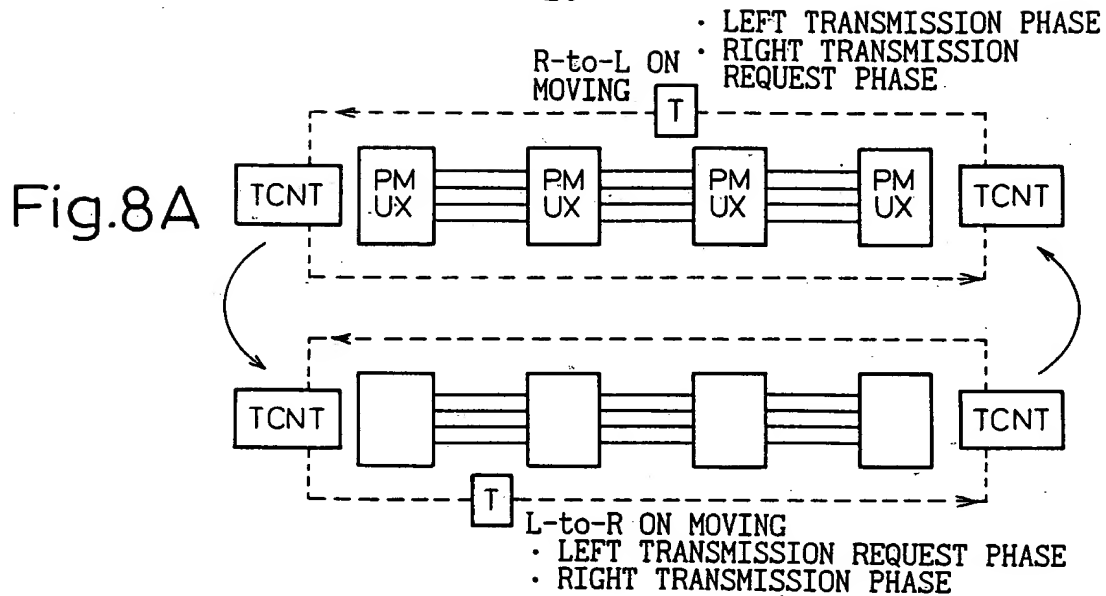


Fig.9

STRUCTURE OF TOKEN PACKET

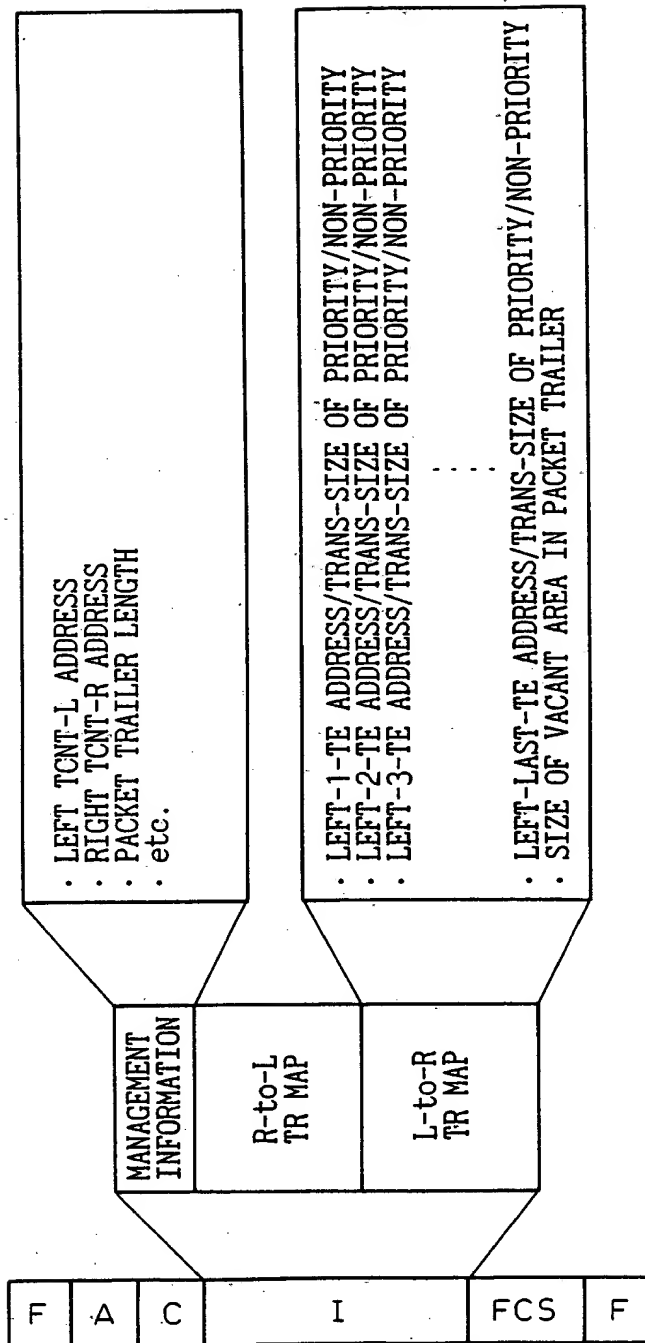


Fig.10

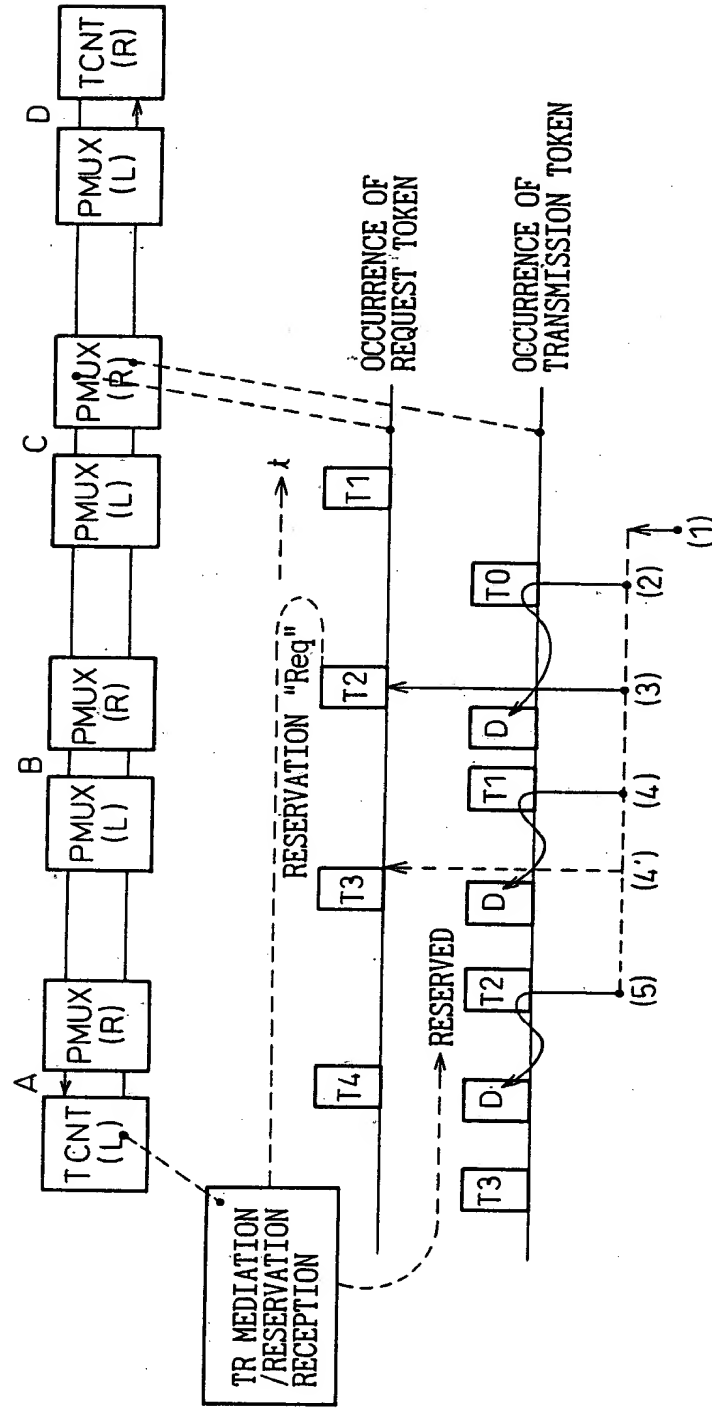
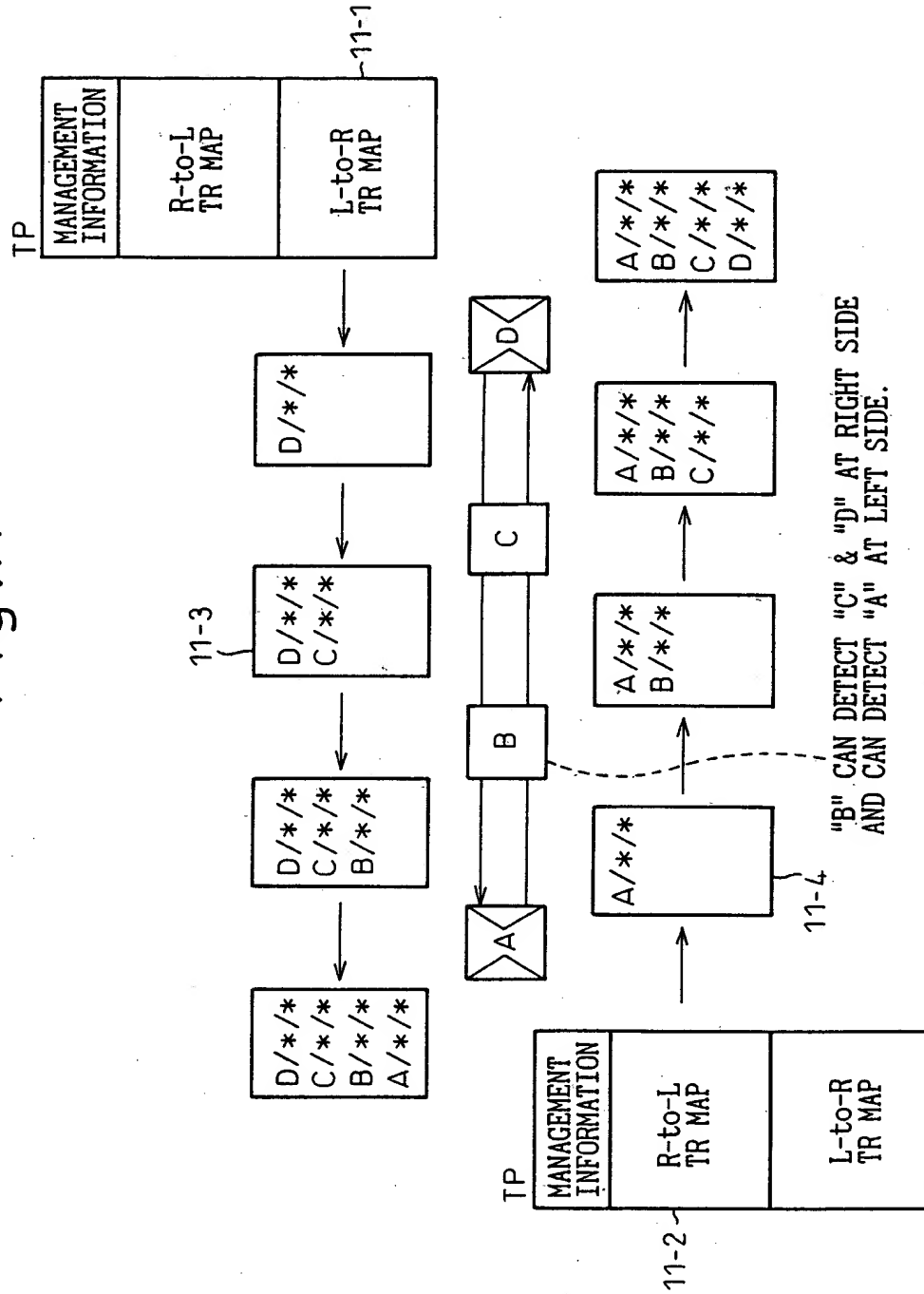
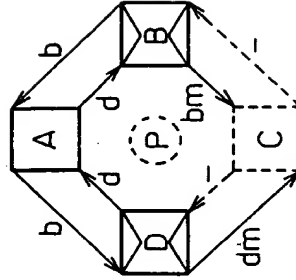


Fig.11



$I_n = \#0$ $I_n = \#1$	DATA FRAME HAS NOT ARRIVED	"MASTER-INFORMING" OF MASTER NODE "m" HAS ARRIVED	"MASTER-INFORMING" AND "MASTER-INVITING" OF MASTER NODE "m" HAVE ARRIVED
	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED
"MASTER-INFORMING" OF MASTER NODE "n" HAS ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED
	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED
"MASTER-INFORMING" AND "MASTER-INVITING" OF MASTER NODE "n" HAVE ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED
	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED	DATA FRAME HAS NOT ARRIVED

Fig. 13D



**NODE
RECOVERED**

Fig. 13G

Fig. 14D

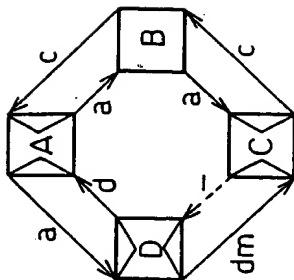


Fig. 14E

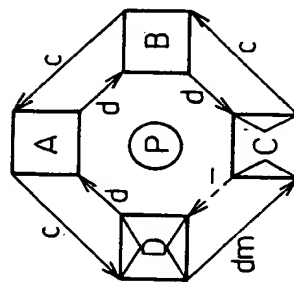


Fig. 14F

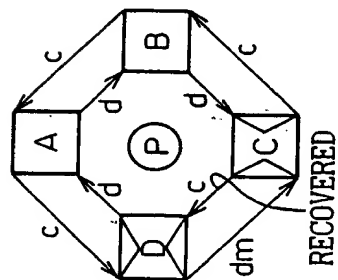


Fig. 14G

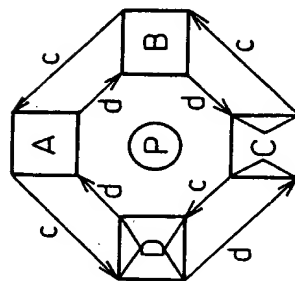
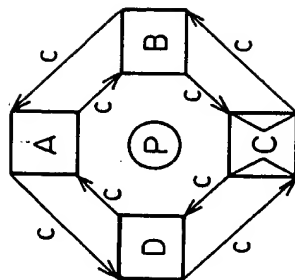


Fig. 14H



RECOVERED

Fig.15A

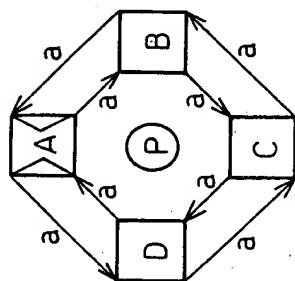


Fig.15B

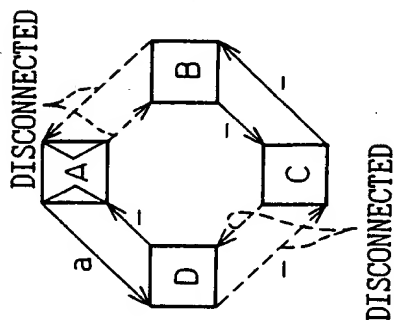


Fig.15C

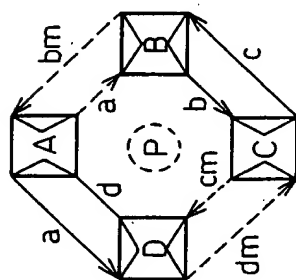


Fig.15D

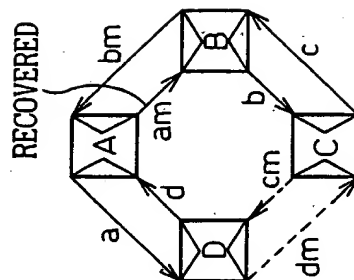


Fig.15E

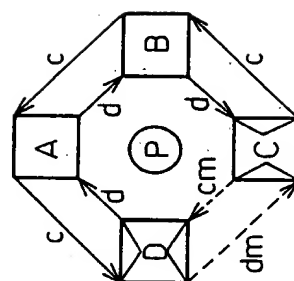


Fig.16A

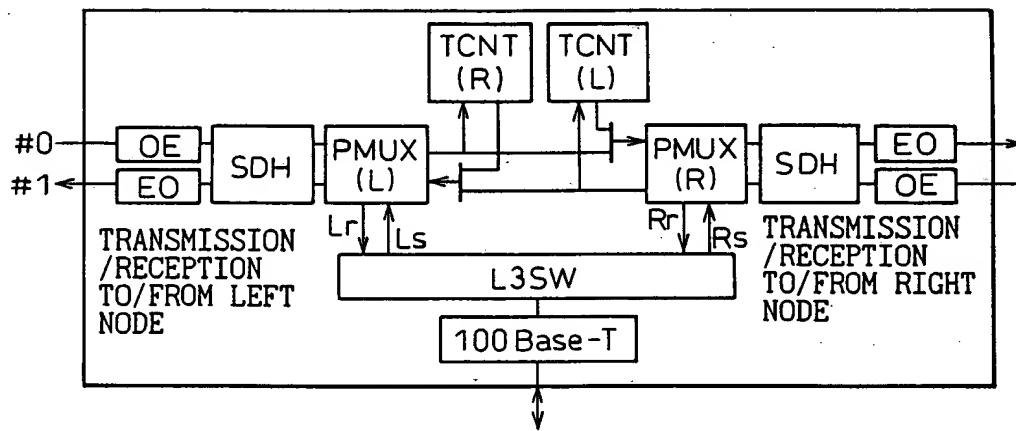


Fig.16B

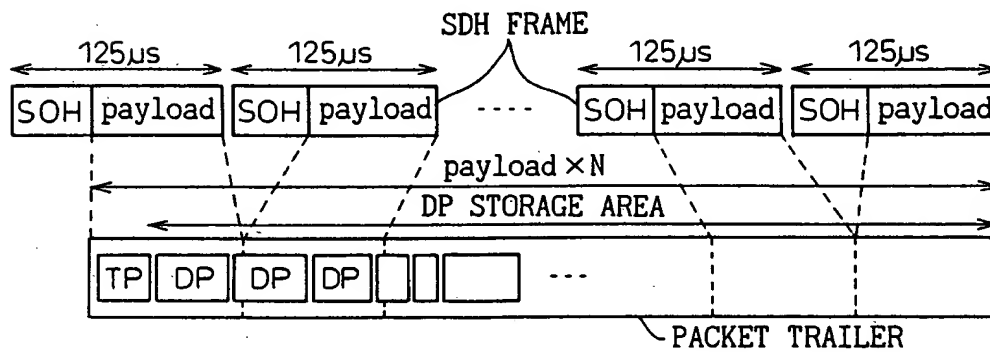


Fig.16C

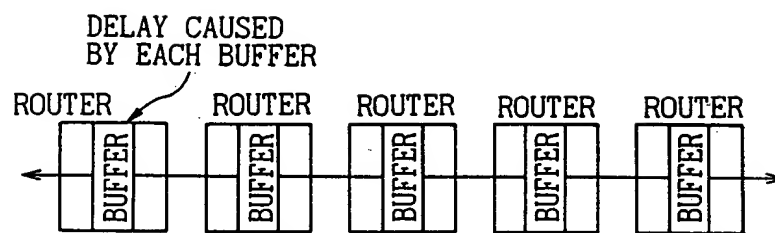


Fig.16D

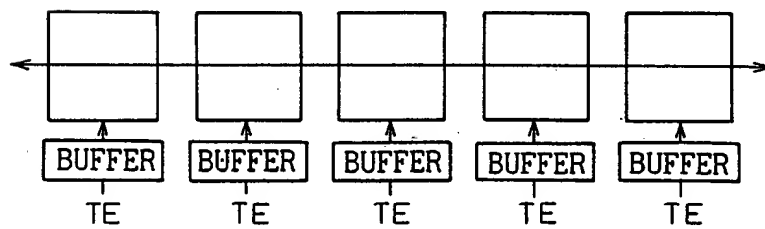


Fig.17A

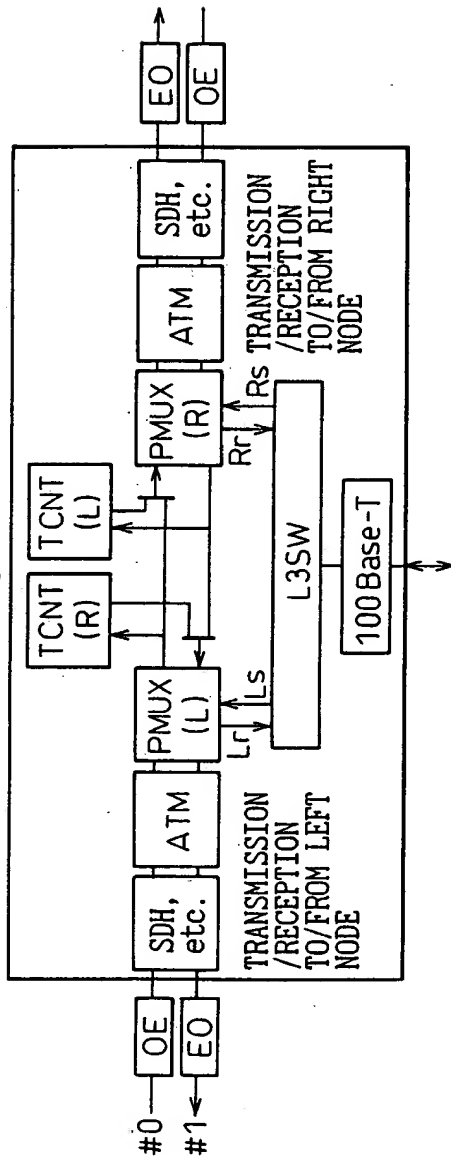


Fig.17B

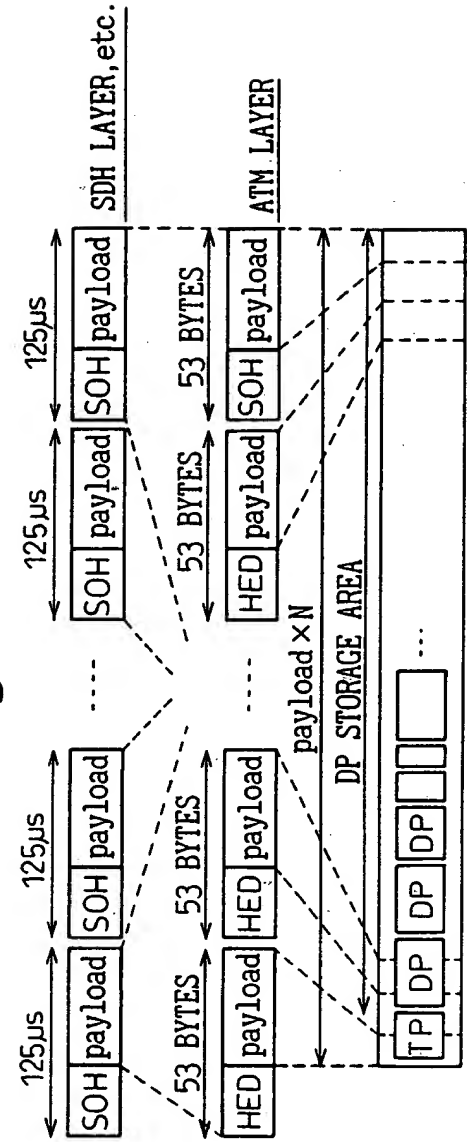


Fig.18A

PRIOR ART

THE SAME DATA IS DELIVERED
ON LINES #0 AND #1, AND
SELECTED AT RECEPTION SIDE

- COMMUNICATES
ON ONE LINE
- THE OTHER LINE
IS NOT USED

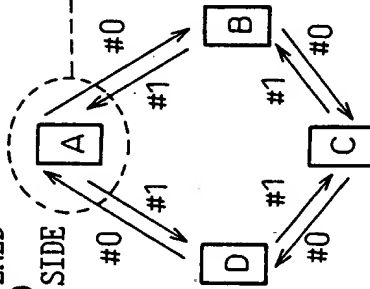


Fig.18B

PRIOR ART

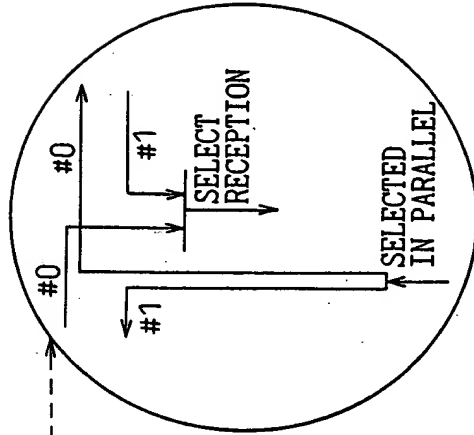


Fig.18C

PRIOR ART

IN THE CASE OF DATA BEING
TRANSMITTED FROM NODE
"C" TO "A"

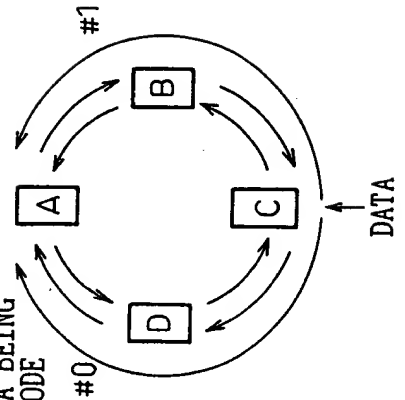


Fig.19A
PRIOR ART

LOOP-BACK CONNECTION
AT ABNORMAL STATE

USUALLY,
COMMUNICATED BY
ONLY LINE #0

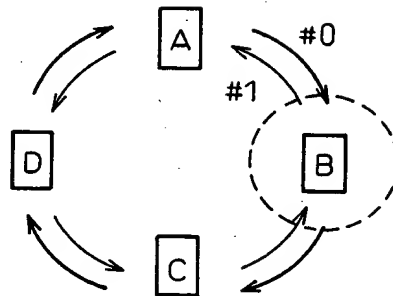


Fig.19B
PRIOR ART

IN THE CASE OF DATA BEING
TRANSMITTED FROM
"C" TO "A"

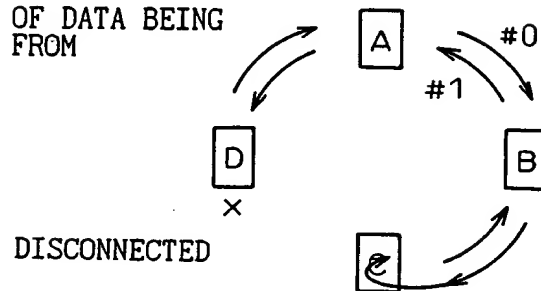


Fig.20A
PRIOR ART

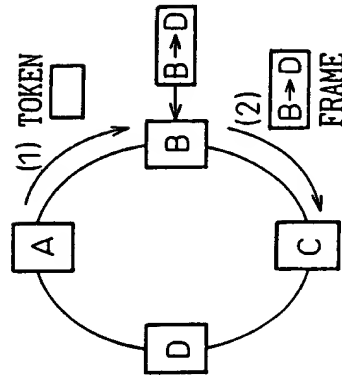


Fig.20B
PRIOR ART

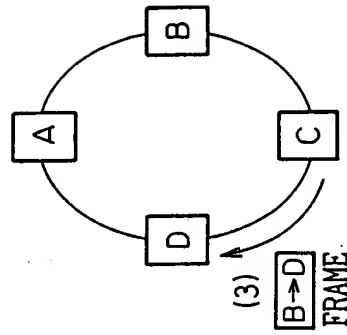


Fig. 21B
PRIOR ART

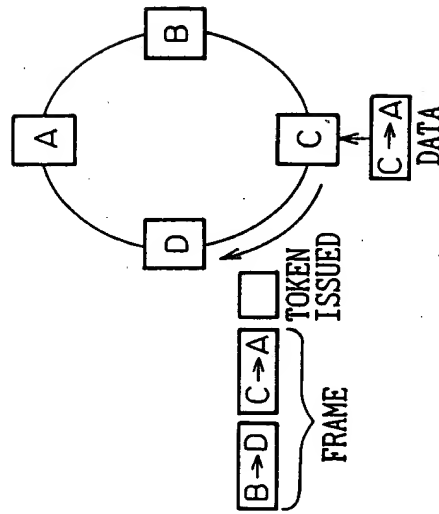


Fig. 21A
PRIOR ART

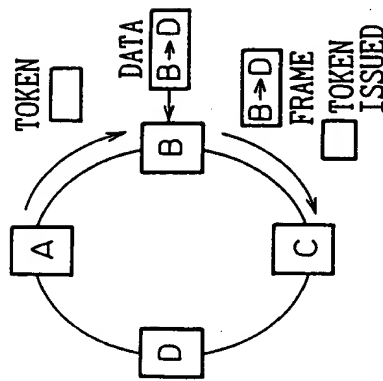


Fig. 21C

PRIOR ART

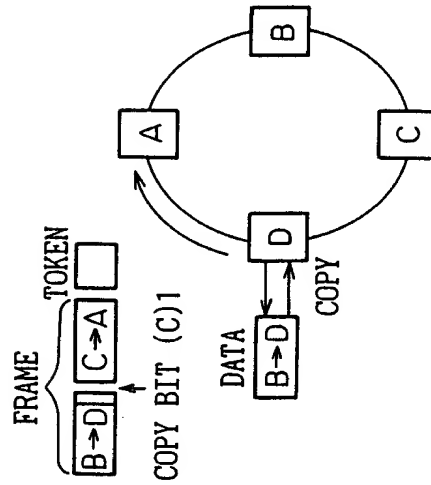


Fig. 21D

PRIOR ART

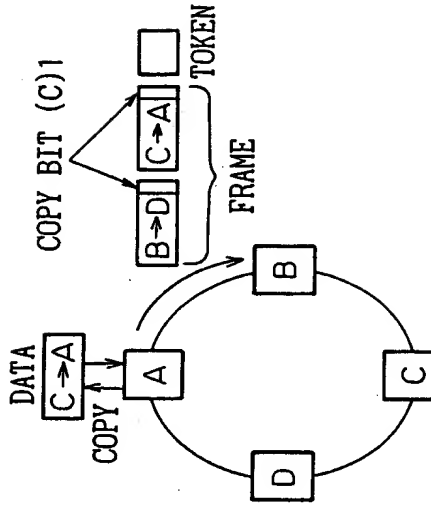


Fig. 21E
PRIOR ART

